Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently amended)** An endoluminal graft deployment catheter, comprising:

a proximal outer tube section, having a proximal end and a distal end;

an intermediate tube extending through the proximal tube section and beyond the distal end;

a central core, extending through the intermediate tube; and

a cap attached to the central core;

a tubular sheath extending over a portion of the intermediate tube and having an open distal end and a proximal end, the open distal end of the tubular sheath having a first diameter and the proximal end of the tubular sheath having a second diameter that is smaller than the first diameter, the proximal end being coupled to the intermediate tube, the tubular sheath defining a proximal cavity between the tubular sheath and the intermediate tube for receiving a proximal end of a prosthesis; and

a plug positioned in the proximal cavity between the tubular sheath and the intermediate tube, the plug defining a distal surface that faces the proximal end of the prosthesis.

2. **(Original)** An endoluminal graft deployment catheter as in Claim 1, wherein the intermediate tube is rotationally linked to the outer tube.

3. **(Original)** An endoluminal graft deployment catheter as in Claim 1, wherein the cap is axially movable between a first position in which it contacts the outer tube and a second position in which it is spaced distally apart from the outer tube.

4. **(Original)** An endoluminal graft deployment catheter as in Claim 4, wherein the central core comprises a flexible tube.

5. **(Currently amended)** An endoluminal graft deployment catheter as in Claim 4, wherein the flexible tube comprises a polymeric braid.

6. **(Currently amended)** An endoluminal graft deployment catheter as in Claim 5, wherein the flexible tube further comprises a reinforcing element which overlaps the point of contact between the cap and the outer tube.

7. **(Original)** An endoluminal graft deployment catheter as in Claim 6, wherein the reinforcing element comprises a tubular element carried by the flexible tube.

8. **(Currently amended)** An endoluminal graft deployment catheter, comprising:

an elongate flexible body, having a proximal end and a distal end;

a proximal outer tube section, having a proximal end and a distal end;

a distal outer tube section, having a proximal end and a distal end,

an intermediate tube extending through the proximal outer sheath tube section and beyond the distal end of the proximal outer tube section; the intermediate tube having a first portion and a second portion, the first portion having a larger diameter than the second portion to form a distally facing surface;

a central core, extending through the proximal and distal outer tube sections and the intermediate tube;

a tubular sheath having an open distal end and a proximal end, the open distal end of the tubular sheath having a first diameter and the proximal end of the tubular sheath having a second diameter that is smaller than the first diameter, the proximal end of the tubular sheath being coupled to the second portion of the intermediate tube, the tubular sheath defining a proximal cavity for receiving a proximal end of a prosthesis; and

a spacer for filling at least partially a space between the distally facing surface of the intermediate tube and an outer surface of the tubular sheath

wherein the proximal and distal tube sections define a prosthesis cavity therein for carrying the prosthesis; and axial separation of the proximal tube section from the distal tube section opens the cavity to release the prosthesis.

9. **(Original)** An endoluminal graft deployment catheter as in Claim 8, wherein each of the proximal tube section and the distal tube section is rotationally linked to the central core.

10. **(Original)** An endoluminal graft deployment catheter as in Claim 8, wherein at least one of the proximal tube section and the distal tube section is axially movable between a first position in which the cavity is closed and a second position in which the cavity is open.

11. **(Original)** An endoluminal graft deployment catheter as in Claim 10, comprising a junction between the proximal tube section and the distal tube section when the cavity is closed, and further comprising a reinforcing element spanning the junction.

12. **(Original)** An endoluminal graft deployment catheter as in Claim 11, wherein the reinforcing element comprises a tube.

13-14.**(Canceled)**

15. **(New)** An endoluminal graft deployment catheter as in Claim 1, wherein the plug substantially fills a space defined between the distal surface of the plug, an inner surface of the tubular sheath and the outer surface of the intermediate tube.

16. **(New)** An endoluminal graft deployment catheter as in Claim 1, wherein the plug substantially fills a proximal end of the proximal cavity.

17. **(New)** An endoluminal graft deployment catheter as in Claim 1, wherein the tubular sheath is configured to constrain, at least a portion, of the vascular graft in a reduced diameter configuration.

18. **(New)** An endoluminal graft deployment catheter as in Claim 17, wherein the tubular sheath comprises PTFE.

19. **(New)** An endoluminal graft deployment catheter, comprising:

a proximal outer tube section, having a proximal end and a distal end;

an intermediate tube extending through the proximal tube section and beyond the distal end;

a central core, extending through the intermediate tube; and

a tubular sheath having an open distal end and a proximal end, the open distal end of the tubular sheath having a first diameter and the proximal end of the tubular sheath having a second diameter that is smaller than the first diameter, the proximal end being coupled to the intermediate tube, the tubular sheath defining a proximal cavity for

receiving a proximal end of a prosthesis, the tubular sheath configured to maintain the proximal end of the prosthesis in a compressed configuration; and

a plug positioned in the proximal cavity, the plug defining a distal surface that faces the proximal end of the prosthesis.

20. **(New)** An endoluminal graft deployment catheter as in Claim 19, wherein the plug substantially fills a space defined between the distal surface of the plug, an inner surface of the tubular sheath and the outer surface of the intermediate tube.

21. **(New)** An endoluminal graft deployment catheter as in Claim 19, wherein the plug substantially fills a proximal end of the proximal cavity.

22. **(New)** An endoluminal graft deployment catheter as in Claim 19, wherein the tubular sheath is configured to constrain, at least a portion, of the vascular graft in a reduced diameter configuration.

23. **(New)** An endoluminal graft deployment catheter as in Claim 22, wherein the tubular sheath comprises PTFE.

24. **(New)** An endoluminal graft deployment catheter as in Claim 19, comprising a cap attached to the central core.

25. **(New)** An endoluminal graft deployment catheter as in Claim 24, wherein the proximal and distal tube sections define a prosthesis cavity therein for carrying the prosthesis; and axial separation of the proximal tube section from the distal tube section opens the cavity to release the prosthesis.